

Title (en)

A LOAD TRANSFER INTERFACE FOR A VEHICLE DOOR, IN PARTICULAR FOR AN AIRCRAFT CABIN DOOR

Title (de)

LASTÜBERTRAGUNGSSCHNITTSTELLE FÜR EINE FAHRZEUGTÜR, INSBESONDERE FÜR EINE FLUGZEUGKABINENTÜR

Title (fr)

INTERFACE DE TRANSFERT DE CHARGE POUR UNE PORTIÈRE DE VÉHICULE, EN PARTICULIER POUR UNE PORTE DE CABINE D'AÉRONEF

Publication

EP 3275779 A1 20180131 (EN)

Application

EP 16400033 A 20160729

Priority

EP 16400033 A 20160729

Abstract (en)

The invention is related to a load transfer interface 1 for a vehicle door 2 that comprises an outer skin 2a and at least one beam 2b that is connected to the outer skin 2a, wherein the outer skin 2a and the at least one beam 2b define a vehicle door plane, the load transfer interface 1 comprising at least one door stop fitting 5 that is provided to transfer pressure loads from the vehicle door 2 to an associated vehicle structural frame 3, the at least one door stop fitting 5 being provided for rotation in an associated rotation plane, wherein the associated rotation plane is at least approximately parallel to the vehicle door plane. The invention is further related to an aircraft cabin door having such a load transfer interface, as well as to an aircraft having such an aircraft cabin door.

IPC 8 full level

B64C 1/14 (2006.01)

CPC (source: EP US)

B64C 1/1407 (2013.01 - EP US); **B64C 1/1423** (2013.01 - US); **E05B 79/12** (2013.01 - US); **E05B 83/36** (2013.01 - US); **E05B 85/24** (2013.01 - US); **E05Y 2900/502** (2013.01 - US)

Citation (applicant)

- EP 2554471 A1 20130206 - EUROCOPTER DEUTSCHLAND [DE]
- EP 2554472 A1 20130206 - EUROCOPTER DEUTSCHLAND [DE]
- US 2010096505 A1 20100422 - DE FREITAS GASTAO [DE], et al
- US 2010109346 A1 20100506 - DIELING ROBERT [DE], et al
- EP 2254789 A1 20101201 - LATECOERE [FR]
- WO 2008058522 A1 20080522 - EUROCOPTER DEUTSCHLAND [DE], et al
- EP 1053934 A2 20001122 - EUROCOPTER DEUTSCHLAND [DE]
- US 2015033634 A1 20150205 - CUDDY NATHANIAL C [US], et al
- US 5379971 A 19950110 - KIM SUN G [US], et al
- US 5255876 A 19931026 - FLEMING MICHAEL A [US]
- US 5289615 A 19940301 - BANKS EDDIE D [US], et al
- US 5305969 A 19940426 - ODELL RICHARD B [US], et al
- EP 0518429 A1 19921216 - BOEING CO [US]
- EP 0512588 A1 19921111 - BOEING CO [US]
- EP 0317037 A2 19890524 - BOEING CO [US]
- EP 0188825 A2 19860730 - BOEING CO [US]
- EP 0172168 A1 19860226 - BOEING CO [US]
- US 4512539 A 19850423 - ACKERMANN ALBERT B [US], et al
- US 4375876 A 19830308 - STEWART WILLIAM L
- FR 2450339 A1 19800926 - BOEING CO
- US 3791073 A 19740212 - BAKER I
- EP 0222160 A2 19870520 - MESSERSCHMITT BOELKOW BLOHM [DE]
- US 2002000493 A1 20020103 - ERBEN HANNES [DE], et al
- EP 2212192 A1 20100804 - AIRBUS OPERATIONS GMBH [DE]

Citation (search report)

- [XAY] WO 03029585 A2 20030410 - HARTWELL CORP [US], et al
- [X] US 2004144894 A1 20040729 - PARADIS YVES [CA]
- [XY] DE 749543 C 19441124
- [XY] WO 9819908 A1 19980514 - SIKORSKY AIRCRAFT CORP [US]
- [X] US 3704845 A 19721205 - ORD MICHAEL
- [Y] EP 2554472 A1 20130206 - EUROCOPTER DEUTSCHLAND [DE]

Cited by

US2022381070A1; EP3915869A1; EP3995393A1; US11697953B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3275779 A1 20180131; EP 3275779 B1 20191127; US 10871013 B2 20201222; US 2018030762 A1 20180201

DOCDB simple family (application)

EP 16400033 A 20160729; US 201715647477 A 20170712